

RL-DBS-2

Digital Baby Scale

Operation Manual



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Technical training seminars are available through Rice Lake Weighing Systems.
Course descriptions and dates can be viewed at www.ricelake.com or obtained
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1.0 Introduction

The RL-DBS-2 Digital Baby scale provides precise weighing of babies. Highly sophisticated microprocessor technology allows accurate, reliable, and repeatable weighments every time. Movement compensation technology eliminates errors caused by spontaneous movement of the baby and the weight display can be displayed in pounds/ounces or in kilograms.



This manual can be viewed and downloaded from the Rice Lake Weighing Systems website at www.ricelake.com/health.



Figure 1-1. RL-DBS-2 Digital Baby Scale

Standard Features

- Convenient Lb/Kg toggle key
- Large, easy-to-read one inch LCD (Liquid Crystal Display)
- Built in measuring tape
- Recall key to view the last weight measurement
- Power: four AA batteries (included), 120V or 230V AC adapter (included)
- Automatic shut off ensures long battery life.

1.1 Safety

With the RL-DBS-2 Digital Baby scale, there are certain precautions that should be taken to prevent injury to the baby and damage to your scale.

1.1.1 Safety Signals

Safety Signal Definitions:



Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.



Indicates information about procedures that, if not observed, could result in damage to equipment.

1.1.2 Safety Precautions



Do not operate or work on this equipment unless you have read and understand instructions in the manual. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals. Proper care is your responsibility.

**Warning**

Before attempting to operate this unit, make sure every individual who operates or works with this unit has read and understands the following safety information. Please follow these instructions carefully.

- Do not transport the scale while the infant is on the weighing tray.
- Do not drop the scale or subject it to violent shocks.
- For accurate weighing, the scale must be placed on a flat, stable surface.
- For accurate weighing, verify proper operation according to the procedure described in this manual before each use.
- Operation at other voltages and frequencies than specified could damage your equipment.
- Utilizing adapters not supplied by Rice Lake Weighing Systems voids all warranties.

2.0 Assembly Instructions

The RL-DBS-2 Digital Baby scale comes fully assembled and includes the scale and a 120V or 230V AC adapter. To set up the scale:

1. Select a sturdy, flat surface on which to place the scale on.
2. Plug in the 120V or 230V AC adapter. The AC power adapter plugs into the back of the indicator as shown below in Figure 2-1.

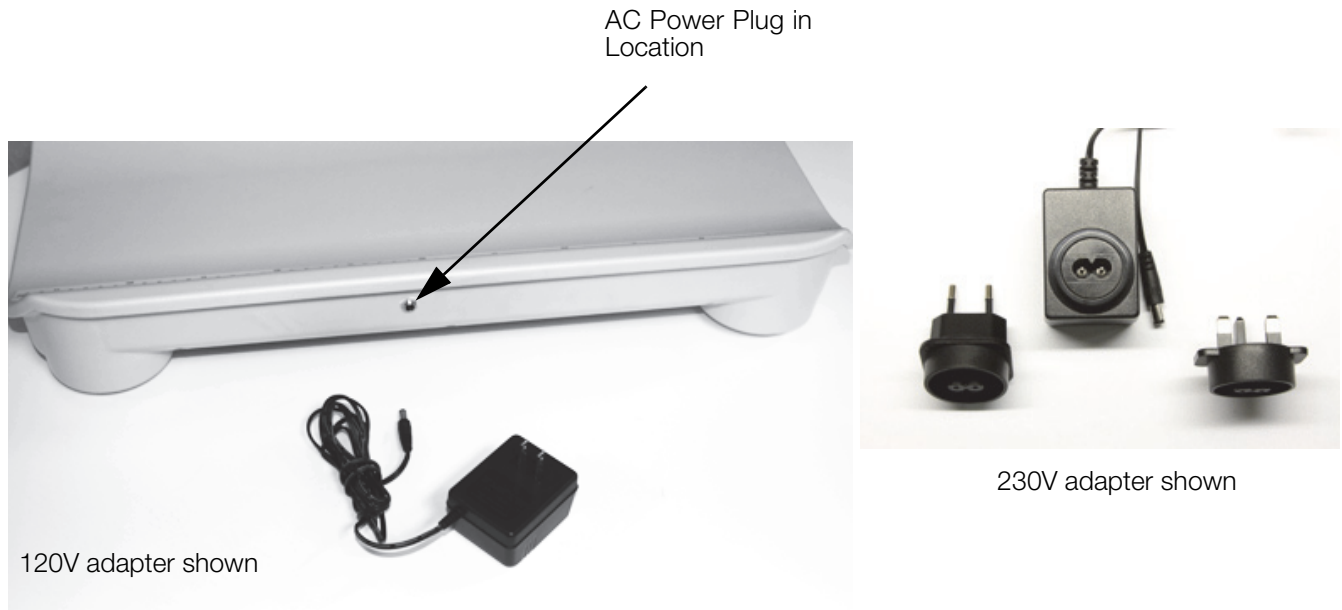


Figure 2-1. AC Power Connection Site

The RL-DBS-2 Digital Baby scale is also capable of running on four (4) AA batteries if no additional power source is available. If the *Lo* prompt is showing on the display, replace the battery or connect the scale to an AC power source as soon as possible for accurate weighing.



Figure 2-2. Low Battery Indicator

3.0 Scale Setup

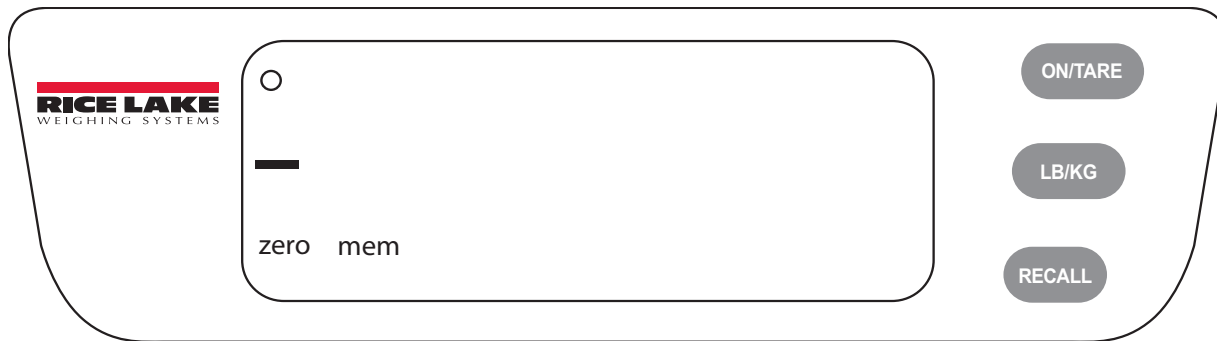


Figure 3-1. RL-DBS-2 Display

Use the following table to identify what each part of the display does.

Item	Description	Function
ON/TARE	ON/TARE key On Function: One short push for On One push for Off (approx. five seconds) Tare Function: One short push to Tare out the scale	This key turns the scale on and off With weight on the scale, press this key to tare out the scale and return it to zero.
LB/KG	LB/KG key One short push	This key selects either pounds/ounces or kilograms.
RECALL	RECALL key When the scale is turned on, use one short push.	This allows the user to recall the last weighment, ie: you can remove the baby, press the recall key and see the baby's weight again.
—	Negative or Minus indicator	When the scale is on, this display shows a negative weight reading.
zero	ZERO indicator	When the scale is on, this display indicates that the scale is stable and ready for use.
mem	Memory indicator	
o	Motion indicator	This is displayed when a weight reading is complete. It is not displayed while the weight reading is being calculated.
	6-Digit LCD digital display	The LCD displays the infant weight in pounds/ounces or kilograms and shown by the LB or KG indicator on the right side of the display.
	LB/OZ indicator	When the scale is on, this display indicates that the scale is weighing in pounds/ounces
	KG	When the scale is on, this display indicates that the scale is weighing in kilograms

Table 3-1. Front Panel, Showing Annunciators



Note *The RL-DBS-2 Digital Baby scale is pre-calibrated from the factory.*

Use the following steps to set up the RL-DBS-2 Digital Baby scale when it is initially powered up.

1. To operate the unit using the AC adapter, plug the AC adapter cable into the back of the scale as shown in Figure 2-1, and the AC adapter plug into a power source.
2. Press the **ON/TARE** key to turn on the scale.
3. When the self test function is complete, the digital display should read: 0:00.00 if set up in Lb/Oz or 0.00 if set up to read in Kg.
4. Place a weight (not exceeding 40 Lb) on the scale. The weight calculation is complete once the motion indicator turns on.
5. Press the **LB/KG** key to select the weight mode, either in pounds/ounces or kilograms.
6. Remove the weight from the scale. To view the weight that was just on the scale, press the **RECALL** key.



Note *If the setup procedure failed, refer to the troubleshooting section of this manual. If the problem is not resolved, refer to a qualified service provider.*

4.0 Scale Operation with Tare

The RL-DBS-2 Digital Baby scale can accurately weigh babies up to 44 Lb (20 Kg). Use the following steps to weigh a baby.

1. Press the **ON/TARE** key to turn the scale on.
2. Wait until the 0:0.0 (if set up in Lb/Oz) appears on the digital display or 0.00 if set up in Kg.
3. Place a pad on the weighing tray. Make sure that the edges of the pad are on the tray and are not touching the surface on which the scale is positioned. The weight calculation is complete once the motion indicator turns on (**○**).
4. Press the **ON/TARE** key to tare the weight of the pad or other accessory that is on the weighing tray.
5. Place the baby on the scale. The weight calculation is complete once the motion indicator turns on (**○**).



Note *If the scale is being used with batteries and is not used for two minutes, it switches off to save battery life and power. To restart the scale, press the **ON/TARE** key.*

5.0 Troubleshooting & Testing

Refer to the following instructions to check and correct any failure before consulting service personnel.

Symptom	Possible Cause	Corrective Action
Scale does not turn on when using just batteries	Dead batteries	Connect the scale to a power source or change batteries
Scale does not turn on	Dead battery	Connect the scale to a power source
	Faulty electrical outlet	Use a different electrical outlet
	Bad power supply	Replace adapter
Questionable weight or the scale does not zero	External object is interfering with the scale	Remove the infant/interfering object from the weighing tray from the scale
	Display did not show 0.0 before weighing	Remove the baby, zero the scale and begin the weighing process again
	Scale is not placed on a level surface	Place the scale on a stable surface and begin the weighing process again
	The weighing tray is not placed properly	Place the weighing tray in its proper place
	Scale is out of calibration	Check the scale with a known weight value
The display shows o_Ld message	The load on the scale exceeds the capacity	Remove the excess weight and use the scale according to its stated limit
The display show Err	The RECALL key was pressed with insufficient weight on the scale.	Place more than 2 Lb, 30 Oz on the scale

Table 5-1. Troubleshooting Table

6.0 Maintenance

The following section provides instructions for maintaining and cleaning the RL-DBS-2 Digital Baby scale. Maintenance operations other than those described in this section should be performed by qualified service personnel.

6.1 Basic Maintenance

Before the first use of the scale and after periods of non-use, check the scale for proper operation and function. If the scale does not operate correctly, contact qualified service personnel.

Go through the following steps for basic maintenance.

1. Check the overall appearance of the entire scale for any obvious signs of damage, abuse, etc.
2. Inspect the condition of the AC adapter for cord cracking or fraying, or for broken or bent prongs.

6.2 Cleaning

Proper care and cleaning is essential to ensure a long life of accurate and effective operation. Before beginning the cleaning process, disconnect the scale from the AC power source.

1. Clean all external surfaces with a clean, damp cloth or tissue. Mild soap and water solution may be used. Dry with a clean soft cloth.
2. Do not immerse the scale into cleaning or other liquid solutions.
3. Do not use Isopropyl alcohol or other solutions to clean the display surface.

7.0 Specifications

Capacity:	0-22 Lb x 0.2 oz (10 Kg x 5 g) 22-44 Lb x 0.5 oz (10-20 Kg x 10 g)
Power Requirements:	Four (4) double AA batteries (included) or AC adapter (included) Adapter is UL and C-UL approved
Environmental:	Operating temperature: 50 to +104°F (10 to +40°C) Storage temperature: -4 to +140°F (-20 to +60°C) Humidity: <80% relative humidity
Dimensions:	23.5" (L) x 11" (W) (60 x 28 cm)
Weight:	5.26 Lb (2.5 Kg)
Warranty:	Two-year Limited Warranty

RL-DBS-2 Digital Baby Scale Limited Warranty

Rice Lake Weighing Systems (RLWS) warrants that all RLWS equipment and systems properly installed by a Distributor or Original Equipment Manufacturer (OEM) will operate per written specifications as confirmed by the Distributor/OEM and accepted by RLWS. All systems and components are warranted against defects in materials and workmanship for two years.

RLWS warrants that the equipment sold hereunder will conform to the current written specifications authorized by RLWS. RLWS warrants the equipment against faulty workmanship and defective materials. If any equipment fails to conform to these warranties, RLWS will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:

- Upon discovery by Buyer of such nonconformity, RLWS will be given prompt written notice with a detailed explanation of the alleged deficiencies.
- Individual electronic components returned to RLWS for warranty purposes must be packaged to prevent electrostatic discharge (ESD) damage in shipment. Packaging requirements are listed in a publication, *Protecting Your Components From Static Damage in Shipment*, available from RLWS Equipment Return Department.
- Examination of such equipment by RLWS confirms that the nonconformity actually exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair or improper testing; RLWS shall be the sole judge of all alleged non-conformities.
- Such equipment has not been modified, altered, or changed by any person other than RLWS or its duly authorized repair agents.
- RLWS will have a reasonable time to repair or replace the defective equipment. Buyer is responsible for shipping charges both ways.
- In no event will RLWS be responsible for travel time or on-location repairs, including assembly or disassembly of equipment, nor will RLWS be liable for the cost of any repairs made by others.

THESE WARRANTIES EXCLUDE ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER RLWS NOR DISTRIBUTOR WILL, IN ANY EVENT, BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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